Indo-Japanese collaboration ior the exchange of technology in the field of communications

1954. SHRI VITHALRAO MADHAVRAO JADHAV: Will the Minister of COMMUNICATIONS be pleased to state:

(a) what is the nature of collaboration, if any, the Government of India have made with Japan, for exchange of technology in the field of communications;

(h) what progress has so far been made in this regard; and

(c) to what extent the . telephone system is likely to improve as a result of such collaboration?

THE MINISTER OF STATE IN THE MINISTRY OP COMMUNICATIONS (SHRI V. N. GADGIL): (a) to (c) In so far as Ministry of Communications is concerned, foreign collaboration has been entered into by M/s. Indian Telephone Industries Limited and Electronic Corporation of India Limited, the two Central Public Sector Undertakings with Japanese firms for indigenous manufacture of following: —

(i) Indian Telephone Industries (ITI) with M/s. NEC of Japan for FM—FDM ground communication equipment and low noise amplifiers.

(ii) ITI with M/s. Kokusai Electric Co., for Multi Access Rural Radio Systems.

• (iii) ITI with M/s. Tamura Electric Co. for Plastic Dials for Telephone Instruments.

(iv) Electronics Corporation of India Ltd. with M/s. NEC of Japan for manufacture of Earth Station Antenna.

(v) Electronics Corporation of India Ltd. with M/s. NEC of Japan for i high power amplifier for Earth Station.

The items covered by SI. No. (i) above are used in Satellite Communications. The agreement for FM-FDM Equipment was entered into in March, 1981 and after obtaining the necessary know-how transfer, ITI is manufacturing the equipment indigenously. In respect of Low Noise Amplifiers, an agreement signed in August, 1983 has been taken on record in December, 1983. The transfer of know-how as part of the implementation of the project is in progress.

The agreement for Multi-access Rural Radio System entered into in May, 1983 has been taken on record only in April, 1984. The question of implementation is under correspondence witn the collaborators.

Pending clearance of an agreement for indigenous manufacture of telephone instruments of a totally new design, as an interim arrangement ITI had entered into an agreement for the manufacture of plastic dials for use in telephone instruments in August, 1980. After obtaining necessary know-how, ITI is manufacturing these dials in current production.

The items covered at serial numbers (iv) and (v) are used, in Satellite Communications.

Electronics Corporation of India Ltd. (ECIL) has supplied 30 antennas so far using the know-how from NEC for the INSAT System.

Regarding High Power Amplifiers, ECIL is expected *to* supply equipment in January, 1985. •

The equipment that will be manufactured under these agreements will contribute to the improvement of the telephone network.

Theatres ana Ballet Groups associated with Doordarshan

1955. SHRI M. BASAVARAJU: Will the Minister of INFORMATION AND BROADCASTING be pleased to state:

(a) the names of the theatres and ballet groups -which were associated